

CLAIMS:

1. A presensitized lithographic printing plate which comprises a hydrophilic support and an image-forming layer containing microcapsules dispersed in the image forming layer and a hydrophilic compound arranged outside of the microcapsules, wherein microcapsules comprises a core comprising a polymerizable compound and a shell comprising a polymer which has adherence to a surface of the hydrophilic support.
2. The presensitized lithographic printing plate as defined in claim 1, wherein the polymer of the shell has a urethane bond or a urea bond in a main chain of the polymer.
3. The presensitized lithographic printing plate as defined in claim 1, wherein the polymer of the shell is a reaction product of an alcohol, a phenol, a thiol or an amine with a polyisocyanate.
4. The presensitized lithographic printing plate as defined in claim 3, wherein the polyisocyanate is adduct of a polyol with diisocyanate.
5. The presensitized lithographic printing plate as defined in claim 4, wherein the diisocyanate is xylylene diisocyanate.
6. The presensitized lithographic printing plate as defined in claim 1, wherein the polymerizable compound has a vinyl ether group or an epoxy group, and the image-forming layer further contains a heat-sensitive acid precursor.

7. The presensitized lithographic printing plate as defined in claim 1, wherein the polymerizable compound has an ethylenically unsaturated group, and the image-forming layer further contains a thermal polymerization initiator.

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8. The presensitized lithographic printing plate as defined in claim 1, wherein the image-forming layer or another optional layer further contains an agent capable of converting light to heat.

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9. The presensitized lithographic printing plate as defined in claim 1, wherein the hydrophilic support is an aluminum plate.

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10. The presensitized lithographic printing plate as defined in claim 1, wherein the polymer of the shell has a cationic group, the hydrophilic compound arranged outside of the microcapsules has a nonionic hydrophilic group, and the hydrophilic surface of the support has an anionic group.

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11. The presensitized lithographic printing plate as defined in claim 10, wherein the cationic group is an onium group.

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12. The presensitized lithographic printing plate as defined in claim 11, wherein the onium group is selected from the group consisting of an ammonium group, a phosphonium group, a sulfonium group and an iodonium group.

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13. The presensitized lithographic printing plate as defined in claim 10, wherein the polymer of the shell is a reaction product of an alcohol, a phenol, a thiol or an amine with a polyisocyanate, said alcohol, phenol, thiol or amine having the cationic group.

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14. The presensitized lithographic printing plate as  
defined in claim 10, wherein the hydrophilic support is  
aluminum plate having an anodic oxidation coating subjected  
5 to a silicate treatment.

15. The presensitized lithographic printing plate as  
defined in claim 9, wherein the polymer of the shell has a  
group having a function of forming an aluminum complex.  
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16. The presensitized lithographic printing plate as  
defined in claim 15, wherein the group having the function  
of forming the aluminum complex comprises two carbonyl  
groups between which one carbon atom intervenes.  
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17. The presensitized lithographic printing plate as  
defined in claim 15, wherein the group having the function  
of forming the aluminum complex contains nitrogen atom hav-  
ing an unshared electron pair.  
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18. The presensitized lithographic printing plate as  
defined in claim 15, wherein the polymer of the shell is a  
reaction product of an alcohol, a phenol, a thiol or an  
amine with a polyisocyanate, said alcohol, phenol, thiol or  
25 amine having the group having the function of forming the  
aluminum complex.

19. The presensitized lithographic printing plate as  
defined in claim 1, wherein the polymer of the shell has a  
30 lactone ring.

20. The presensitized lithographic printing plate as  
defined in claim 19, wherein the lactone ring is a five-  
membered ring or a six-membered ring.  
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21. The presensitized lithographic printing plate as defined in claim 19, wherein the polymer of the shell is a reaction product of an alcohol, a phenol, a thiol or an amine with a polyisocyanate, said alcohol, phenol, thiol or  
5 amine having the lactone ring.